

CLAIMS

- 5 1. A method of automatic uploading of the requirements of UML models created by a modeling tool, and of their updating, characterized in that the requirements are created during the creation of the elements of the UML model, that, when the model is stabilized, the requirements entered into the model are exported to the requirements management tool, and that there is created, automatically, a navigation module containing all the UML objects pointed at by at least one requirement and a requirements module of level n.
- 10 2. The method as claimed in claim 1, characterized in that the requirements module of level n is linked to another upstream requirements module of level n+1 defined previously.
- 15 3. The method as claimed in claim 1 or 2, characterized in that, during requirements modifications, these modifications are performed in the UML model, with the modeling tool.
- 20 4. The method as claimed in one of the preceding claims, characterized in that the modeling tool is "RHAPSODY" and that the requirements management tool is "DOORS".
- 25 5. The method as claimed in claim 4, characterized in that during successive importations, the following steps are carried out:
 - creation of two new modules:
 ▪ a UML_DOORS Requirements Module containing the set of UML_DOORS Requirements corresponding to all the UML Requirements contained in the UML model imported,
 ▪ a UML navigation module representing the new UML model,
 - deletion of the former UML navigation module and of all the
 30 DOORS elements relating to it,

- analysis of the updates to be performed between the two UML_DOORS Requirements Modules,
 - updating of the former UML_DOORS Requirements Module,
 - deletion of the new UML_DOORS Requirements Module,
 - 5 - creation of the navigation links between the former UML_DOORS Requirements Module and the new UML navigation module.
6. The method as claimed in claim 4 or 5, characterized in that if a UML Requirement already imported during a previous importation is modified in the model, there will be, during the following
- 10 importation,:
- o creation of a new UML_DOORS Requirement corresponding to the UML Requirement
 - o creation of a link between the former and the new UML Requirement
 - 15 o transfer of the incoming and outgoing links from the former to the new UML-DOORS Requirement
 - o updating of the version number on the new UML_DOORS Requirement with respect to the former.